

Date: Sun, 19 Dec 93 04:30:30 PST
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V93 #137
To: Ham-Homebrew

Ham-Homebrew Digest Sun, 19 Dec 93 Volume 93 : Issue 137

Today's Topics:

 chirping oscillator (2 msgs)
 Heathkit DX-60B Mod? (2 msgs)
 Intercom info available from author
 Ramsey 6m (2 msgs)

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 17 Dec 93 16:12:07 EST
From: titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa
Subject: chirping oscillator
To: ham-homebrew@ucsd.edu

In article <1993Dec16.213126.9152@cactus.org>, majec@cactus.org (Majec
Systems) wrote:

> The Sad Tale of a Musical Oscillator, Or how I'll spend my Xmas vacation
> Well, what that silly first line was meant to allude to was the fact that
> I have a chirping, whooping, and generally being anything but, stable
> oscillator.

Ed-

I'm not familiar with the Ten-Tec, but other chirping oscillators have
problems with voltage regulation, and unstable loads.

Aside from improving the voltage regulation, you might try leaving the
oscillator on continuously during transmit, and keying a subsequent stage.

In the latter days of vacuum tube transmitters, "grid-block" keying was used to accomplish that. Earlier transmitters put the key in the cathode of one of the later stages.

Other QRP transceivers have a circuit to slightly change the frequency of the VFO, to provide approximately 800 Hz offset between transmit and receive frequencies. If yours does this (and it probably does), that offset circuit may be contributing to the chirp.

ARRL has published a couple of volumes, containing summaries of QST Hints & Kinks related to problems with QRP rigs. If you have access to a store that carries them, you might take a look for your Ten-Tec.

73, Fred, K4DII

Date: Thu, 16 Dec 1993 21:31:26 GMT
From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!gatech!swrinde!
cs.utexas.edu!cactus.org!majec@network.ucsd.edu
Subject: chirping oscillator
To: ham-homebrew@ucsd.edu

The Sad Tale of a Musical Oscillator, Or how I'll spend my Xmas vacation

Well, what that silly first line was meant to allude to was the fact that I have a chirping, whooping, and generally being anything but, stable oscillator.

As CW is my preferred form of rf emission this chirping oscillator just won't cut it.

Here are the specifics.

The rig is a TEN-TEC pm2 (early 70's qrp rig) It's a direct conversion style transceiver. "The oscillator used for receiving operates directly at the frequency being received. This allows the same oscillator to be used for transmitting. When the XTAL/VFO switch is placed in the VFO position, it connects the receiving oscillator output in place of the crystal."

This is a fairly crude design in my opinion. The DPDT switch has single conductor hookup wire going from the switch to the board (six of them) about 2.5 inches long. The switch selects between 80m and 40m lc circuits which feed the base of the bipolar transistor, the oscillator. The oscillator is followed by a buffer and then the XTAL/VFO switch. After the XTAL/VFO switch is the driver stage and the final.

That's it on the radio

Soooo, what how about suggestions on improving the stability of the oscillator. By the way there is no shielding around the transistor section of the oscillator, the inductor is in a metal can but that's it.

Any suggestions would be appreciated. I am going camping down into Mexico and want to use my new (to me) VFO capable radio as opposed to my MXM rock bound QRP rig.

Thanks in advance.

Ed Guinn
kb5ruf
majec@cactus.org

Date: 17 Dec 93 20:18:36 GMT
From: ogicse!cs.uoregon.edu!sgiblab!sdd.hp.com!col.hp.com!srngenprp!
alanb@network.ucsd.edu
Subject: Heathkit DX-60B Mod?
To: ham-homebrew@ucsd.edu

Michael Fortner (ncc2001@cwis.unomaha.edu) wrote:
: Hello all! I am wondering if there is anyway I can add SSB to my
: Heathkit DX-60B (currently CW/AM) so I can do 10M SSB. I would prefer
: a "black box" between the transmitter and the antenna, although a
: hardware modification would be considered.

There was a box called the Heath SB-10 which converted a DX-100 or Apache transmitter to SSB. With suitable modifications to the DX-60, you could probably get it to work. It would not be a simple mod.

AL N1AL

Date: Fri, 17 Dec 1993 20:18:16 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!
sol.ctr.columbia.edu!news.unomaha.edu!cwis.unomaha.edu!ncc2001@network.ucsd.edu
Subject: Heathkit DX-60B Mod?
To: ham-homebrew@ucsd.edu

I do not think it is worthless to try to convert this piece of equipment. Many newer hams (myself included) can not afford the outrageous prices of new and "newer" used equipment. However, we can afford and often enjoy modifying what we can afford. It is much better to take a piece of working

electronics and keep it useful than have it take up space in a landfill.

73 de N0YBC Michael

--

Michael Fortner	N0YBC	DOCTOR! DOCTOR! DOCTOR!...	
Internet:	ncc2001@cwis.unomaha.edu	Well, what's your problem?	
Packet:	N0YBC@WB0BLR.#SWIA.IA.USA.NA	My brain hurts!	
		It'll have to come out then!	

Date: Sat, 18 Dec 93 00:34:53 GMT
From: mnemosyne.cs.du.edu!nyx10!jmaynard@uunet.uu.net
Subject: Intercom info available from author
To: ham-homebrew@ucsd.edu

A couple of months or so ago I mentioned that there were plans running around for a homemade VOX intercom that was designed for aircraft use, but would also be useful for multiop contesting. I've finally found the info again.

If you're interested, drop email to Dave Allen, WB0TAQ, at davea@col.hp.com. He'll pass along an ASCII schematic, parts list, and information document. The folks who have built it so far report good success with it, although Dave cautions that some extra bypassing may be necessary in a high-RF environment. I haven't built it yet, though it's on my list of things for the next Field Day...

--

Jay Maynard, EMT-P, K5ZC, PP-ASEL | Never ascribe to malice that which can
jmaynard@oac.hsc.uth.tmc.edu | adequately be explained by stupidity.
"A good flame is fuel to warm the soul." -- Karl Denninger

Date: 17 Dec 93 19:56:13 GMT
From: aio!usenet@ames.arpa
Subject: Ramsey 6m
To: ham-homebrew@ucsd.edu

In article <CI6un1.CxE@acsu.buffalo.edu> v087jsfu@ubvms.cc.buffalo.edu (Danny Anderson) writes:

>Did anyone see the Ramsey 6m kit? The ad says a 12 year old did the 2m
>kit. It would be real embarrassing if I ordered one and couldn't get it
>to work. Does anyone do 6m? In our area there is about 7 repeaters.
>Would it be safe to say, that you would not find anyone or hardly anyone
>on them? If I got one, how do you check when the radio is good for DX?
>If the conditions for DX are good do the repeaters still work?

>

>N2UPM

>Dan

>

Has anyone built the Ramsey 6m Rig. I have been considering building one and would appreciate any feedback.

Thanks,

John Maca

NASA-Johnson Space Center

jmaca%jscdk@jesnic.jsc.nasa.gov

Date: 19 Dec 93 01:21:10 GMT

From: mulvey!rich@uunet.uu.net

Subject: Ramsey 6m

To: ham-homebrew@ucsd.edu

Danny Anderson (v087jsfu@ubvms.cc.buffalo.edu) wrote:

: Did anyone see the Ramsey 6m kit? The ad says a 12 year old did the 2m
: kit. It would be real embarrassing if I ordered one and couldn't get it
: to work. Does anyone do 6m? In our area there is about 7 repeaters.
: Would it be safe to say, that you would not find anyone or hardly anyone
: on them? If I got one, how do you check when the radio is good for DX?
: If the conditions for DX are good do the repeaters still work?

Dan:

Ramsey kits are generally considered to be bottom-of-the-barrel quality, especially when you consider that they tend to have lots and lots of spurious emissions, without (undocumented) modifications. They can be useful as a starting point for parts, etc, but don't expect to get a rig that meets FCC standards without some redesigning.

- Rich

--

Rich Mulvey

rich@mulvey.com

Amateur Radio: N2VDS

"QRP is not for sissies"

Rochester, NY

End of Ham-Homebrew Digest V93 #137
